



JATE

SAN FILANAN

(Kalandengafe)

Kalansen 1\\

Seginkanni

K'a ta 0 la ka t'a bila 999 na

Ja : Jitalan 2 mangoro7

2	7
1 - Sqbqnni dafa	
0	1
....
4	....
6	7
....
9	9

2 - Daw kalan

3 5 7 8 0 9 4 1 6 2

3 - Daw sqbqn ka b\\ fitinin na ka taa caman na

3 9 4 7 2

4 - Daw sqbqn katimu k\\n\\

54 905 142 699 500

5 - Daw kalan

45 325 50 404 999

6 - Daw sqbqn ka b\\ fitinin na ka taa caman na

353 105 77 528 820 43

7 - Biw ni kelenw hakq sqbqn

648 140 937 888 495

Kalansen 2nan

Seginkanni

Kafoli ni d\\b\\li

Misi duuru, fila sara
5-2=

1 - Jaabiw sqbqn

$$61 + 32 = \underline{31} + 4 = \underline{437} + 8 = 99 + 86 =$$

$$74 - 13 = \underline{67} - 46 = 588 - 341 =$$

$$\begin{array}{r} 674 \\ + \underline{22} \\ \hline = \end{array} \quad \begin{array}{r} 454 \\ + \underline{233} \\ \hline = \end{array} \quad \begin{array}{r} 647 \\ + \underline{109} \\ \hline = \end{array} \quad \begin{array}{r} 592 \\ - \underline{231} \\ \hline = \end{array}$$

$$\begin{array}{r} 248 \\ + \underline{136} \\ \hline = \end{array} \quad \begin{array}{r} 603 \\ + \underline{147} \\ \hline = \end{array} \quad \begin{array}{r} 286 \\ + \underline{309} \\ \hline = \end{array} \quad \begin{array}{r} 577 \\ - \underline{19} \\ \hline = \end{array}$$

2 - Jatexiniw

-Minata ye x̄ kg 267 s̄rl a ka foro f̄ll la, ka kg 233 s̄rl filanan na. Minata ye x̄ kg joli s̄rl?

-Sanba taara ni d̄rl̄mq 957 ye d̄lḡ la. A ye duloki d̄l san d̄rl̄mq 425. Sanba ni joli seginna so?

-Furakisq dira an ka dugu ma sumaya kqlqli sirati la. Dugutigila ye furakisq 325 s̄rl, Bamanankin ta kgra kisq 106 ye, K̄lk̄ ta kgra kisq 248 ye.
Furakisq joli dira an ka dugu ma ?

Kalansen 3nan

Sigiyrl̄mali

Jiri 4

4

Jiri hakq bq s̄rl ni kafoli ye.

jiri 4

4

$$4 + 4 + 4 = 12$$

jiri 4

4

Walima jiri hakq bq s̄rl ka bqn a sigiyrl̄ma hakq ma.

- jiriw ye sigiyrl̄ma 3 ye

-j iri 4 bq sigiy\r\ma kelen o kelen k\ln\.

$$\begin{array}{ccc}
 \text{||||} & \text{||||} & \text{||||} \\
 4 \text{ sigiy}\backslash\text{r}\backslash\text{ma } 1 & 4 & 4 \\
 \hline
 4 \text{ sigiy}\backslash\text{r}\backslash\text{ma } 2 & & \\
 \hline
 & 4 \text{ sigiy}\backslash\text{r}\backslash\text{ma } 3 & \\
 \hline
 \end{array}$$

O bq sqbqn ka da nin cogo la: $4 \times 3 = 12$
A bq sqbqn ka j\l nin cogo la:

$$\begin{array}{r}
 4 \\
 \times \underline{3} \\
 \hline
 = 12
 \end{array}$$

Jatesigi in bq kalan: 4 sigiy\r\ma 3, o ye 12 ye.

daba 6				
6	6	6	6	6

Kafoli sira kan, daba hakq ye:

$$\begin{array}{ccccccccc}
 6 & + & 6 & + & 6 & + & 6 & + & 6 \\
 \text{walimaSigi}\backslash\text{r}\backslash\text{mali} & & & & & & & & = 30
 \end{array}$$

sira kan, daba hakq ye:

$$\begin{array}{ccccccccc}
 6 & \times & 5 & = & 30 & & 6 \\
 & & & & & & & \\
 & & & & & & \times \underline{5} & \\
 & & & & & & & = 30
 \end{array}$$

Degeli

1 - Sqbqnni dafa

$$\begin{array}{ccccccc}
 \cdots & \cdots & \cdots & & & \cdot & \cdot & \cdot \\
 \cdots & \cdots & \cdots & & & & & \\
 \hline
 & & & \dots \dots \times \dots \dots & & &
 \end{array}$$

2 - Kafoli bayqlqma k'a kq sigiy\r\mali ye

$$\begin{array}{ccccc}
 8 & + & 8 & = & \\
 \dots \times \dots = \dots & & & &
 \end{array}$$

$$\begin{array}{ccccc}
 9 & + & 9 & + & 9 = \\
 \dots \times \dots = \dots & & & &
 \end{array}$$

3 - Jaabiw sqbqn

$$\begin{array}{r} 7 \\ \times \frac{4}{=} \end{array} \quad \begin{array}{r} 3 \\ \times \frac{6}{=} \end{array} \quad \begin{array}{r} 2 \\ \times \frac{2}{=} \end{array} \quad \begin{array}{r} 5 \\ \times \frac{1}{=} \end{array} \quad \begin{array}{r} 8 \\ \times \frac{1}{=} \end{array}$$

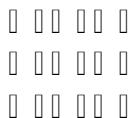
$$\begin{array}{r} 1 \\ \times \frac{5}{=} \end{array} \quad \begin{array}{r} 2 \\ = \end{array} \quad \begin{array}{r} 4 \\ \times \frac{7}{=} \end{array} \quad \begin{array}{r} 3 \\ = \end{array} \quad \begin{array}{r} 9 \\ \times \frac{4}{=} \end{array}$$

4 - Jaabiw sqbqn

$$\begin{array}{r} 3 \times 6 = \\ 2 \times 7 = \end{array} \quad \begin{array}{r} 6 \times 3 = \\ 7 \times 2 = \end{array}$$

Mun bq k\\si?

KA TO HAKILI LA



-Ni danni bq kq ka jigin: $3 \times 6 = 18$

-Ni danni bq kq ka b\ numan fq ka taa kinin fq: $6 \times 3 = 18$

Jaabiw ye kelen ye.

$$3 \times 6 = 18 \quad 6 \times 3 = 18$$

A bq fù: Sigiylafalen tq sigiyrlmali jaabi yqlqma.

Walima : Ba siri bin na , bin siri ba la

**Kalansen 4nan
2 sigiyrlmani**

◊◊
2 x 1 = 2

◊◊ ◊◊
2 x 2 = 4

◊◊ ◊◊ ◊◊
2 x 3 = 6

◊◊ ◊◊ ◊◊ ◊◊
2 x 4 = 8

◊◊ ◊◊ ◊◊ ◊◊
◊◊
2 x 5 = 10

◊◊ ◊◊ ◊◊
◊◊ ◊◊ ◊◊
2 x 6 = 12

◊◊ ◊◊ ◊◊ ◊◊
◊◊ ◊◊ ◊◊
2 x 7 = 14

◊◊ ◊◊ ◊◊ ◊◊
◊◊ ◊◊ ◊◊ ◊◊
2 x 8 = 16

◊◊ ◊◊ ◊◊ ◊◊
◊◊
◊◊ ◊◊ ◊◊ ◊◊
2 x 9 = 18

◊◊ ◊◊ ◊◊ ◊◊
◊◊ ◊◊
◊◊ ◊◊ ◊◊ ◊◊
2 x 10 = 20

2 sigiyrlmakatimu

2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10

2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20

Degeli

1 - Jaabiw sqbqn

2 x 5 =
2 x 7 =

5 x 2 =
7 x 2 =

Mun bq se ka f?
Mun bq se ka f?

KA TO HAKILI LA



-Ni danni bq kq ka jigin: $4 \times 2 = 8$

-Ni danni bq kq ka b\ numan fq ka taa kinin fq: $2 \times 4 = 8$
Jaabiw ye kelen ye.

$$4 \times 2 = 8$$

$$2 \times 4 = 8$$

A bq fù: Sigiylrfalen tq sigiyrlmali jaabi yqlqma.

Walima Ba siri bin na; bin siri ba la

2 - Jaabiw sqbqn

$$\begin{array}{rcl} 2 & & 2 \\ \times \underline{4} & = & \times \underline{6} \\ = & & = \end{array} \quad \begin{array}{rcl} 2 & & 2 \\ \times \underline{2} & = & \times \underline{8} \\ = & & = \end{array} \quad \begin{array}{rcl} 2 & & 2 \\ \times \underline{5} & = & \end{array}$$

3 - Fanta ye jabakisq 6 san d\rlmq 2 a kelen o kelen. Fanta ka wari b\len ye joli ye?

4 - Banabagat\ d\ ye tile 8 kq a bq furakisq 2 ta don o don. A ye furakisq joli ta?

Kalansen 5nan

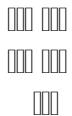
3 sigiyrlmani

$$\begin{array}{c} \square \square \\ 3 \times 1 = 3 \end{array}$$

$$\begin{array}{c} \square \square \\ \square \square \\ 3 \times 2 = 6 \end{array}$$

$$\begin{array}{c} \square \square \quad \square \square \\ 3 \times 3 = 9 \end{array}$$

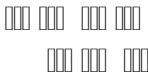
$$\begin{array}{c} \square \square \quad \square \square \quad \square \square \\ 3 \times 4 = 12 \end{array}$$



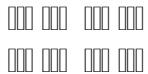
$$3 \times 5 = 15$$



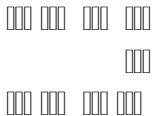
$$3 \times 6 = 18$$



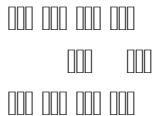
$$3 \times 7 = 21$$



$$3 \times 8 = 24$$



$$3 \times 9 = 27$$



$$3 \times 10 = 30$$

3 sigiy\r\makatimu

$$3 \times 1 = 3$$

$$3 \times 6 = 18$$

$$3 \times 2 = 6$$

$$3 \times 7 = 21$$

$$3 \times 3 = 9$$

$$3 \times 8 = 24$$

$$3 \times 4 = 12$$

$$3 \times 9 = 27$$

$$3 \times 5 = 15$$

$$3 \times 10 = 30$$

Degeli

1 - Jaabiw sqbqn

$$\begin{array}{r} 3 \\ \times \underline{4} \\ = \end{array}$$

$$\begin{array}{r} 3 \\ \times \underline{6} \\ = \end{array}$$

$$\begin{array}{r} 3 \\ \times \underline{2} \\ = \end{array}$$

$$3$$

$$\begin{array}{r} 3 \\ \times \underline{8} \\ = \end{array}$$

$$\begin{array}{r} 3 \\ \times \underline{5} \\ = \end{array}$$

$$3$$

2 - Jaabiw sqbqn.

$$\begin{array}{l} 3 \times 5 = \\ 3 \times 7 = \end{array}$$

$$\begin{array}{l} 5 \times 3 = \\ 7 \times 3 = \end{array}$$

I bq se ka mun fl?

3 - Musa ye mangoro sara 6 da, mangoro 3 b'a kelen o kelen k\nl. Musa ye mangoro joli sarada?

4 - Musow ye nak\ 9 dilan an ka dugu k\nl. Tamati pakati 3 dira u ma nak\ kelen o kelen kama. Tamati pakati joli dira musow ma ?

Kalansen 6nan

1000 : ba kelen

$$\begin{array}{r} 999 \\ + \quad 1 \\ \hline =1000 \end{array}$$

Jaabi sqbqnnen katimu k\ñl. A kalan.

baw	kqmqw	biw	kelenw
	9	9	9
+			1

1	0	0	0
1 000	ba kelen		

Degeli

1 000 sqbqn tomiw kan

1 000 .....	.....	.....	.....
1 000 .....	.....	.....	.....
1 000 .....	.....	.....	.....

Kalansen 7nan

Daw sigiy\r\mali (marata tq min na)
 - sigiy\r\mata ye jateden fila ye,
- siy\r\ma ye 2 walima 3 ye
 (tl)

So 13

So 13

13

13

Hakq ye: $13 + 13 = 26$

Walima $13 \times 2 = 26$

26 sùrùcogo xqfli:

-13 ye bi 1 ni kelen 3 ye.

-26 ye bi 2 ni kelen 6 ye.

-6 ye 2 x 3 jaabi ye kelenw ka so.

-2 ye 2 x 1 jaabi ye biw ka so.

x

biw	kelenw
1	3
	2
= 3	6

x

13
2
= 36

$$21 \times 3 =$$

kelenw ka so: $3 \times 1 = 3$, 3 bq sqbqn kelenw ka so.

biw ka so: $3 \times 2 = 6$, 6 bq sqbqn biw ka so.

biw	kelenw	
2	1	
	3	
= 6	3	
		21
		3
		= 63

Marata : Sigiyr\mali bq daminq duguma ka taa sanfq, ka b\ kinin fq ka taa numan fq.

Degeli

$$\begin{array}{r} 32 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 13 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 32 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 31 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 33 \\ \times \underline{2} \\ = \end{array}$$

$$\begin{array}{r} 31 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 33 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 12 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 22 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 23 \\ \times \underline{2} \\ = \end{array}$$

$$\begin{array}{r} 22 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 11 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 21 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 21 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 11 \\ \times \underline{2} \\ = \end{array}$$

$$\begin{array}{r} 23 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 13 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 12 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 10 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 10 \\ \times \underline{2} \\ = \end{array}$$

$$\begin{array}{r} 20 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 11 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 20 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 30 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 30 \\ \times \underline{2} \\ = \end{array}$$

Jatexiniw

-Binta ye safunkun 3 feere d\rmq 23 a kelen o kelen. Binta ye d\rmq joli s\r?

-Gejuma ye segixq 2 tamati s\r a ka nak\ k\ln\ bi. Tamatiden 32 bq segi kelen o kelen k\ln\ Gejuma ye tamatiden joli s\r bi?

Kalansen 8 nan

Baw: k'a ta 1 000 na ka t'a bila 9 000 na

$$1\,000 + 1\,000 =$$

Jaabi sqbqnnen katimu k\\n\\. A kalan.

	baw	Kqmqw	biw	kelenw
	1	0	0	0
+	1	0	0	0
	2	0	0	0

2 000 ba fila

$$2\,000 + 3\,000 = 5\,000$$

	baw	Kqmqw	biw	kelenw
	2	0	0	0
+	3	0	0	0
	5	0	0	0

5 000 ba duuru

Degeli

1 - Daw sigi x\\g\\n k\\ ka yqlqn

6 000 8 000 3 000 7 000 2 000 9 000

2 - D\\rl\\mq 9 000 tun bq Sanba bolo warimray\\r\\ la. A ye baw san d\\rl\\mq 6 000.

Sanba ka wari t\\ ye joli ye?

3 - Koninba ye kaba kg 6732 mara, ka kg 2268 feere. a ka kaba tun ye kg joli ye?

4 - Nak\\baara hukumu k\\n\\, Sitan ka jaba feerela d\\rl\\mq 3 000, ka tamati feere d\\rl\\mq 2 000. Sitan ye d\\rl\\mq joli s\\r\\. Sitan ye baarakqminqnw san d\\rl\\mq 1 000. A wari t\\ ye joli ye?

Kalansen 9 nan

Daw sigiy\r\mali (marata tq min na)

- sigiy\r\mata ye jateden fila ye,
- siy\r\ma ye 2 walima 3 ye

segi 3

Sigiy\r\mali kqcogo bq xqf $82 \times 3 =$

Sigiy\r\mali bq daminq duguma ka taa sanfq, ka bù kinin fq ka taa numan fq:

-Kelenw ka so: $3 \times 2 = 6$ 6 bq sqbqn kelenw ka so.

-Biw ka so: $3 \times 8 = 24$ 4 bq sqbqn biw ka so

-Kqmqw ka so: 2 bq sqbqn kqmqw ka so

	Kqmqw	biw	Kelenw
x		8	2
			3
	2	4	6

Sigiy\r\mali kqcogo bq xqf $321 \times 2 =$

Sigiy\r\mani bq daminq duguma ka taa sanfq, ka b\ kinin fq ka taa numan fq:

-Kelenw ka so: $2 \times 1 = 2$ 2 bq sqbqn kelenw ka so.

-Biw ka so: $2 \times 2 = 4$ 4 bq sqbqn biw ka so.

-Kqmqw ka so: $2 \times 3 = 6$ 6 bq sqbqn biw ka so.

	kqmqw	Biw	Kelenw
x	3	2	1
			2
	6	4	2

Degeli

1 - 2 sigiy\r\mali katimu f\.

2 - Jaabiw sqbqn

$$2 \times 6 =$$

$$2 \times 4 =$$

$$2 \times 9 =$$

$$2 \times 5 =$$

$$2 \times 1 =$$

$$2 \times 7 =$$

3 - 3 sigiy\r\mani katimu f\

4 - Jaabiw sqbqn

$$3 \times 7 =$$

$$3 \times 5 =$$

$$3 \times 1 =$$

$$3 \times 4 =$$

$$3 \times 9 =$$

$$3 \times 2 =$$

5 - Jaabiw sqbqn

$$\begin{array}{lll} 12 \times 2 = & 23 \times 2 = & 31 \times 2 = \\ 412 \times 2 = & 341 \times 2 = & 431 \times 2 = \end{array}$$

6 - Jaabiw sqbqn

$$\begin{array}{lll} 12 \times 3 = & 23 \times 3 = & 31 \times 3 = \\ 321 \times 2 = & 213 \times 3 = & 121 \times 3 = \end{array}$$

7 - Fanta ye lenburusegi 2 kari a ka nak\ k\ln\ Lenbu 73 bq segi kelen o kelen k\ln\ Fanta ye lenbu joli kari?

8 - Kalandenw ye kulu 3 ye kalanso d\ k\ln\ Kalanden 40 bq kulu kelen o kelen k\ln\ Kalanden joli bq kalanso in k\ln\?

9-Usumani ye \r\bunin 2 feere d\rlmq 432 a kelen o kelen Usumani ye d\rlmq joli s\rl?

Kalansen 10 nan

4 sigiy\rlmali

••••

4 x 1 = 4

•••• •••• ••••

4 x 3 = 12

•••• •••• •••• ••••

4 x 4 = 16

•••• •••• ••••

•••• •••• ••••

4 x 6 = 24

4 sigiy\r\makatimu

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

Kalansen 11nan

5 sigiy\r\mali

.....

.....

$$5 \times 3 = 15$$

.....

.....

.....

.....

$$5 \times 8 = 40$$

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

Degeli

1 - 4 sigiy\r\mani katimu f\.

2 - Jaabiw sqbqn

$$4 \times 5 =$$

$$4 \times 2 =$$

$$4 \times 6 =$$

$$4 \times 3 =$$

$$4 \times 1 =$$

$$4 \times 9 =$$

3 - 5 sigiy\r\mani katimu f\.

4 - Jaabiw sqbqn

$$5 \times 3 =$$

$$5 \times 7 =$$

$$5 \times 4 =$$

$$5 \times 5 =$$

$$5 \times 2 =$$

$$5 \times 8 =$$

5 - Jaabiw sqbqn

$$12 \times 4 =$$

$$21 \times 4 =$$

$$61 \times 4 =$$

$$12 \times 4 =$$

$$11 \times 4 =$$

$$201 \times 4 =$$

6 - Jaabiw sqbqn

$$12 \times 5 =$$

$$21 \times 5 =$$

$$61 \times 5 =$$

$$110 \times 4 =$$

$$111 \times 5 =$$

$$101 \times 4 =$$

7 - Don d\, Karimu ye mangorosara 4 s\r\ a ka foro k\ln\,. Mangoro 121 bq sara kelen o kelen k\ln\,. Karimu ye mangoro joli s\r\ nin don?

8- Bintu ye dulokinin 5 feere d\r\mq 110 a kelen o kelen. Bintu ye joli s\r\?

9- San o san poroze d\ bq m\g\ 100 ta balikukan kama. M\g\ joli bq ta poroze in fq san 4 k\ln\?

Kalansen 12nan

Sigiyrlmali: marata bq min na

Klnl 14

Klnl 14

Klnl 14

$$14 \times 3 =$$

Sigiyrlmali kqcogo bq xqfl

Sigiyrlmani bq daminq duguma ka taa sanfq, ka b\ kinin fq ka taa numan fq:

-Kelenw ka so: $3 \times 4 = 12$; 2 bq sqbqn kelenw ka so ka 1 mara.

-Biw ka so: $3 \times 1 = 3$, 3 kafolen 1 maralen na o ye 4 ye. 4 bq sqbqn biw ka so

(+1)	
biw	kelenw
1	4
	3
4	2

Sigiyrlmali kqcogo bq xqfl

$$247 \times 3 =$$

Sigiyrlmani bq daminq duguma ka taa sanfq, ka b\ kinin fq ka taa numan fq:

-Kelenw ka so: $3 \times 7 = 21$; 1 bq sqbqn kelenw ka so ka 2 mara.

-Biw ka so: $3 \times 4 = 12$, 12 kafolen 2 maralen na o ye 14 ye. 4 bq sqbqn biw ka so ka 1 mara.

-Kqmqw ka so: $3 \times 2 = 6$. 6 kafolen 1 maralen na o ye 7 ye. 7 bq sqbqn kqmqw ka so

(1)		
kqmqw	Biw	kelenw
2	4	7

x			3
	7	4	1

Degeli

1 - 4 sigiy\r\mani katimu fl.

2 - 5 sigiy\r\mani katimu fl.

3 - Jaabiw sqbqn

$$\begin{array}{r} 15 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 29 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 28 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 13 \\ \times \underline{4} \\ = \end{array} \quad \begin{array}{r} 17 \\ \times \underline{5} \\ = \end{array}$$

$$\begin{array}{r} 23 \\ \times \underline{4} \\ = \end{array} \quad \begin{array}{r} 16 \\ \times \underline{5} \\ = \end{array} \quad \begin{array}{r} 27 \\ \times \underline{4} \\ = \end{array} \quad \begin{array}{r} 18 \\ \times \underline{5} \\ = \end{array} \quad \begin{array}{r} 36 \\ \times \underline{4} \\ = \end{array}$$

$$\begin{array}{r} 136 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 169 \\ \times \underline{5} \\ = \end{array} \quad \begin{array}{r} 317 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 158 \\ \times \underline{4} \\ = \end{array}$$

$$\begin{array}{r} 2365 \\ \times \underline{2} \\ = \end{array} \quad \begin{array}{r} 1476 \\ \times \underline{5} \\ = \end{array} \quad \begin{array}{r} 2468 \\ \times \underline{3} \\ = \end{array} \quad \begin{array}{r} 1753 \\ \times \underline{4} \\ = \end{array}$$

4 - Kalandensom\g\t\ln ye kaye karit\ln saba sanna d\rl\mq 3 750 a kelen o kelen.
Karit\ln saba ninnu sanna joli?.

Kalansen 13nan

6 sigiy\r\mali

.....

$$6 \times 2 = 12$$

••••• ••••• •••••

••••• •••••

$$6 \times 5 = 30$$

••••• ••••• •••••

••••• ••••• •••••

••••• •••••

$$6 \times 8 = 48$$

6 sigiy\r\makatimu

$$6 \times 1 = 6$$

$$6 \times 6 = 36$$

$$6 \times 2 = 12$$

$$6 \times 7 = 42$$

$$6 \times 3 = 18$$

$$6 \times 8 = 48$$

$$6 \times 4 = 24$$

$$6 \times 9 = 54$$

$$6 \times 5 = 30$$

$$6 \times 10 = 60$$

Kalansen 14nan

7 sigiy\r\mali

••••••• •••••••

••••••• •••••••

$$7 \times 4 = 28$$

••••••• •••••••

••••••• •••••••

••••••• •••••••

.....
7 x 8 = 56	
7 sigiy\r\makatimu	
7 x 1 = 7	7 x 6 = 42
7 x 2 = 14	7 x 7 = 49
7 x 3 = 21	7 x 8 = 56
7 x 4 = 28	7 x 9 = 63
7 x 5 = 35	7 x 10 = 70

Degeli

1 - 7 sigiy\r\mani katimu f\.

2 - Jaabiw sqbqn

7 x 5 =	7 x 2 =	7 x 6 =
7 x 3 =	7 x 1 =	7 x 9 =

3 - Jaabiw sqbqn

2 x 7 =	3 x 7 =	4 x 7 =
5 x 7 =	6 x 7 =	1 x 7 =

4 - Jaabiw sqbqn

12 x 7 =	24 x 7 =	63 x 7 =
120 x 7 =	131 x 4 =	106 x 4 =
112 x 7 =	121 x 7 =	127 x 7 =
110 x 7 =	132 x 7 =	107 x 4 =

7 - Nci sara ye d\r\mq 125 ye tile o tile. A joli s\r\ tile 7 k\ln\?

8 - K\tinq ye tigab\rq 7 s\r\l. B\rq kelen giriya ye kg 135 ye. K\tinq ka tiga giriya ye kg joli ye?

Kalansen 15nan

Daw sigiy\r\mali:

Sigiyl\maliq ye jateden fila walima saba ye

Sigiyl\mali bq sqbqn katimu k\nl.
jaabi bq xini

$$\begin{array}{r} 32 \\ \times \underline{12} \\ = \end{array}$$

Sigiyl\maliq la, jatedenw bq kelen-kelenta ka b\ kinin fq ka taa numan fq.

-jateden fil: 2 (kelenw ka so)

2 x 2 = 4, 4 bq sqbqn kelenw ka so.

2 x 3 = 6, 6 bq sqbqn biw ka so.

-Jateden filanan: 1 (biw ka so)

1 x 2 = 2, 2 bq sqbqn biw ka so.

1 x 3 = 3, 3 bq sqbqn kqmqw ka so.

Kafoli bq kq:

$$\text{kelen ka so: } 4 + 0 = 4$$

$$\text{biw ka so: } 6 + 2 = 8$$

$$\text{kqmqw ka so: } 0 + 3 = 3,$$

	kqmqw	Biw	kelenw
x	3	2	
	1	2	
	6	4	
	3	2	
=	3	8	4

Sigiyrlmali jaabi bq xinin

$$132 \times 12 =$$

Sigiyrlmahakq la, jatedenw bq kelen-kelenta ka b\ kinin fq ka taa numan fq.

-jateden fil: 2 (kelenw ka so)

$$2 \times 2 = 4, \text{ 4 bq sqbqn kelenw ka so.}$$

$$2 \times 3 = 6, \text{ 6 bq sqbqn biw ka so.}$$

$$2 \times 1 = 2, \text{ 2 bq sqbqn kqmqw ka so.}$$

-Jateden filanan: 1 (biw ka so)

$$1 \times 2 = 2, \text{ 2 bq sqbqn biw ka so.}$$

$$1 \times 3 = 3, \text{ 3 bq sqbqn kqmqw ka so.}$$

$$1 \times 1 = 1, \text{ 1 bq sqban baw ka so.}$$

Kafoli bq kq:

$$\text{kelenw ka so: } 4 + 0 = 4$$

$$\text{biw ka so: } 6 + 2 = 8$$

$$\text{kqmqw ka so: } 2 + 3 = 5,$$

$$\text{baw ka so: } 0 + 1 = 1,$$

	baw	kqmqw	biw	kelenw
x		1	3	2
			1	2
		2	6	4
=	1	3	2	
	1	5	8	4

Degeli

$$\begin{array}{r} \times \underline{12} \\ = \end{array}$$

$$\begin{array}{r} \times \underline{25} \\ = \end{array}$$

$$\begin{array}{r} \times \underline{26} \\ = \end{array}$$

$$\begin{array}{r} \times \underline{37} \\ = \end{array}$$

Kalansen 16nan

8 sigiy\r\mali

.....

.....

$$8 \times 3 = 24$$

.....

.....

.....

$$8 \times 6 = 48$$

8 sigiy\r\mali

$$8 \times 1 = 8$$

$$8 \times 6 = 48$$

$$8 \times 2 = 16$$

$$8 \times 7 = 56$$

$$8 \times 3 = 24$$

$$8 \times 8 = 64$$

$$8 \times 4 = 32$$

$$8 \times 9 = 72$$

$$8 \times 5 = 40$$

$$8 \times 10 = 80$$

Kalansen 17nan

9 sigiy\r\mali

•••••••••• ••••••••••

$$9 \times 2 = 18$$

•••••••••• ••••••••••

•••••••••• ••••••••••

•••••••••• ••••••••••

$$9 \times 6 = 54$$

9 sigiy\r\mali

$$9 \times 1 = 9$$

$$9 \times 6 = 54$$

$$9 \times 2 = 18$$

$$9 \times 7 = 63$$

$$9 \times 3 = 27$$

$$9 \times 8 = 72$$

$$9 \times 4 = 36$$

$$9 \times 9 = 81$$

$$9 \times 5 = 45$$

$$9 \times 10 = 90$$

Degeli

Jaabi sqbqn

$$143 \times 8 =$$

$$268 \times 9 =$$

$$382 \times 8 =$$

Kalansen 18nan

Tilali

<i>Kar̄ti 6</i>	<i>den 3</i>
6	3

Karuti tilala

Koori 3, kar̄ti 2 bq a kelen kelen k̄nl

Kar̄ti 6 tilala kalanden 3 cq. O bq sqbqn

$$6 : 3 = 2 \quad \text{walima}$$

$$\begin{array}{r} 6 \\ 0 \\ \hline =2 \end{array}$$

Kalancogo:6 tilala 3 cq, niȳrl̄ ye 2 ye, tl̄ ye 0 ye, tl̄ ma to.

....

....12 papayes

2 paniers

....

12

tilata

2

$$12 : 2 = 6$$

tilalilan (tilaliȳrl̄ hakq)

$$\begin{array}{r} 12 \\ 0 \\ \hline =6 \end{array}$$

Degeli

$$\begin{array}{r} 12 \\ 0 \\ \hline =6 \end{array}$$

niȳrl̄

Tilali kq

$$8 : 4 =$$

$$10 : 5 =$$

$$16 : 4 =$$

$$9 : 3 =$$

$$7 : 7 =$$

$$6 : 2 =$$

Kalansen 19nan

tilali (tl̄)

Jaabi bq xini ni sigiȳrl̄makatimu ye

Jatesigi jaabi bq xini.

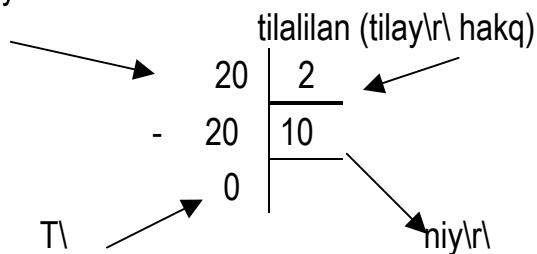
$$20 : 2 =$$

2 sigiy\rlma joli ye 20 ye?

$$10 \times 2 = 20$$

10 bq sqbqn jaabi y\rl la.

tilala



Misali

$$\begin{array}{r} 9 \\ - 9 \\ \hline 0 \end{array}$$

Misali

$$\begin{array}{r} 42 \\ - 42 \\ \hline 0 \end{array}$$

Degeli

18:2

35:5

20:4

16:8

12:3

42:6

Kalansen 20nan

Tilali

Baara bq kq ni tilata jatedenw ye

20 :2

Tilali jaabi bq xini ni tilata jatedenw ye, ka b\ numan fq ka taa kinin fq

2 tilalen 2 ye o ye joli ye? walima

Joli sigiy\rlma 2 ye 2 ye?

1x2 =2 , 1 bq sqbqn.

2 - 2 = 0

0 min bq 2 kinin fq o bq lajigin.

$$0 \text{ tilalen } 2 = 0 \quad 0 \times 2 = 0$$

$$\begin{array}{r} 0-0=0 \\ 20 \quad | \quad 2 \\ - \quad 2 \quad | \quad 10 \\ \hline 00 \\ - \quad 0 \\ \hline 0 \end{array}$$

Jatesigi jaabi bq xini. $69 : 3 =$

-Jateden fll bq ta n'o ye 6 ye.

6 tilalen 3 ye, o ye joli ye? walima

$$\text{Joli sigiyrlma } 3 \text{ ye } 6 \text{ ye?} \quad 2 \times 3 = 6 \quad 6 - 6 = 0$$

$$\begin{array}{r} 69 \quad | \quad 3 \\ - \quad 6 \quad | \quad 2 \\ \hline 0 \end{array}$$

9 min bq 6 kinn fq o bq lajigin:

$$\begin{array}{r} 69 \quad | \quad 3 \\ - \quad 6 \quad | \quad 2 \\ \hline 09 \end{array}$$

9 tilalen 3 ye, o ye joli ye? walima

Joli sigiyrlma 3 ye 9 ye?

$$3 \times 3 = 9 \quad 9 - 9 = 0$$

$$\begin{array}{r} 69 \quad | \quad 3 \\ - \quad 6 \quad | \quad 23 \\ \hline 09 \\ - \quad 09 \\ \hline 00 \end{array}$$

Degeli

$$18 \quad | \quad 9$$

$$30 \quad | \quad 6$$

$$48 \quad | \quad 8$$

$$28 \quad | \quad 4$$

$$36 \quad | \quad 6$$

$$\begin{array}{c} \boxed{} \\ 18 \boxed{9} \end{array}
 \quad
 \begin{array}{c} \boxed{} \\ 30 \boxed{6} \end{array}
 \quad
 \begin{array}{c} \boxed{} \\ 48 \boxed{8} \end{array}
 \quad
 \begin{array}{c} \boxed{} \\ 28 \boxed{4} \end{array}
 \quad
 \begin{array}{c} \boxed{} \\ 36 \boxed{6} \end{array}$$

Kalansen 21nan

Tilali (tl tq to)

Ja : Mangoro ni segi 3

$$126 : 3 =$$

Jaabi bq xini ni tilata jatedenw ye, ka b\ numan fq
ka taa kinin fq.

1 tilalen 3 ye o ye joli ye? O tq se ka kq. Jateden min bq 1 kinin fq n b'o lajigin. N
bq 12 s\rl. 12 tilalen 3 ye o ye joli ye? walima Joli sigiy\r\lma 3 ye 12 ye? 4 bawo 4 x
3=12. N bq 4 sqbqn. $4 \times 3 = 12$ $12 - 12 = 0$

6 min bq 2 kinin fq o bq lajigin. 6 tilalen 3 ye o ye joli ye? walima Joli sigiy\r\lma 3
ye 6 ye? 2 bawo 2 x 3=6. N bq 2

sqbqn. $2 \times 3 = 6$ $6 - 6 = 0$

$$\begin{array}{r}
 1 \quad 2 \quad 6 \quad | \quad 3 \\
 -1 \quad 2 \\
 \hline
 0 \quad 0 \quad 6 \\
 -6 \\
 \hline
 0
 \end{array}$$

Misali

$$\begin{array}{r}
 2 \quad 5 \quad 5 \quad | \quad 5
 \end{array}$$

$$\begin{array}{r}
 -2 \quad 5 \\
 \hline
 0 \quad 0 \quad 5 \\
 \hline
 -5 \\
 \hline
 0
 \end{array} \left| 51 \right.$$

Degeli

$$15 \quad | \quad 3$$

$$24 \quad | \quad 4$$

$$375 \quad | \quad 5$$

$$360 \quad | \quad 6$$

Kalansen 22nan

Tilali (tl bq to)

Tamati, segi 4,tamati 3

219 : 4

Jaabi bq xini ni tilata jatedenw ye, ka bq numan fq
ka taa kinin fq

2 tilalen 4 ye o ye joli ye? O tq se ka kq. Jateden min bq 2 kinin fq n b'o lajigin. N bq
21 srl.

21 tilalen 4 ye o ye joli ye? walima Joli sigiy\rlma 4 ye 21 ye? $5 \times 4 = 20$
 $6 \times 5 = 30$ 5 de bq bqn.

$$5 \times 4 = 20 \quad 23 - 20 = 3$$

9 min bq 1 kinin fq o bq lajigin.

19 tilalen 3 ye o ye joli ye? walima Joli sigiy\rlma 4 ye 39 ye? $4 \times 4 = 16$ $5 \times 4 = 20$ 4 de bq bqn.

$$4 \times 4 = 16$$

$$19 - 16 = 3$$

$$\begin{array}{r}
 2 \quad 1 \quad 9 \\
 \hline
 -2 \quad 0 \\
 \hline
 0 \quad 1 \quad 9 \\
 \hline
 -1 \quad 6 \\
 \hline
 0 \quad 3
 \end{array} \left| 4 \right. \left| 54 \right.$$

Misali

$$\begin{array}{r}
 1 \quad 5 \quad 7 \\
 \hline
 -1 \quad 2 \\
 \hline
 \end{array} \left| 6 \right. \left| 26 \right.$$

$$\begin{array}{r}
 \overline{0 \quad 3 \quad 7} \\
 -3 \quad 6 \\
 \hline
 0 \quad 1
 \end{array}$$

Kalansen 23

Tilali

seginkanni

$$\begin{array}{r}
 8 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 6 \quad | \quad 3 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 4 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 9 \quad | \quad 3 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 8 \quad | \quad 4 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 6 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 4 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 9 \quad | \quad 9 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 40 \quad | \quad 4 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 60 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 25 \quad | \quad 5 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 14 \quad | \quad 7 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 18 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 24 \quad | \quad 4 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 35 \quad | \quad 5 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 20 \quad | \quad 2 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 48 \quad | \quad 6 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 54 \quad | \quad 9 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 45 \quad | \quad 5 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 32 \quad | \quad 8 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 30 \quad | \quad 6 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 40 \quad | \quad 8 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 60 \quad | \quad 6 \\
 \hline
 =
 \end{array}$$

$$\begin{array}{r}
 39 \quad | \quad 5 \\
 \hline
 =
 \end{array}$$

=

=

=

=

Gafe k\ñ\kow

seginkanni: k'a ta 0 la ka t'a bila 999 na.....
seginkanni : kafoli ni d\b\li.....
sigiy\r\mali.....
2 sigiy\r\mali.....
3 sigiy\r\mali.....
1 000, ba kelen.....
daw sigiy\r\mali (marata tq min na)sigiy\r\mata ye jateden fila ye, sigiy\r\ma ye 2 walima 3 ye.....
baw : k'a ta 1000 la ka t'a bila 9 000 na.....
daw sigiy\r\mali (marata tq min na) sigiy\r\mata ye jateden fila ye, sigiy\r\ma ye 2 walima 3 ye (tù).....
4 sigiy\r\mali.....
5 sigiy\r\mali.....
sigiy\r\mali (marata bq min na)

6 sigiy\r\mali.....
7 sigiy\r\mali.....
daw sigiy\r\mali: sigiy\r\mahakq ye jateden fila walima saba ye.....
8 sigiy\r\mali.....
9 sigiy\r\mali.....
tilali.....
tilali (t\) : jaabi bq xini ni sigiy\r\makatimu ye.....
tilali: baara bq kq ni tilata jatedenw ye.....
tilali (t\).....
tilali (t\ bq to).....
tilali: seginkanni.....